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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,652	08/20/2003	Wendy Naimark	10177-185-999	8822
20583 JONES DAY	7590 11/28/200	7	EXAM	INER
222 EAST 41ST ST			WITCZAK, CATHERINE	
NEW YORK, NY 10017			ART UNIT	PAPER NUMBER
			3767	
			MAIL DATE	DELIVERY MODE
			11/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/645,652	NAIMARK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Catherine N. Witczak	3767				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY	Y IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.				
WHICHEVER IS LONGER, FROM THE MAILING DATE : Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become AB ANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 24 A	<u>ugust 2007</u> .					
3) Since this application is in condition for alloward	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-33</u> is/are pending in the application						
4a) Of the above claim(s) 6,7,16 and 20 is/are	4a) Of the above claim(s) 6,7,16 and 20 is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) ☐ Claim(s) <u>1-5, 8-15, 17-19, and 21-31</u> is/are rej	ected.					
7) Claim(s) <u>32 and 33</u> is/are objected to.	7) ☐ Claim(s) <u>32 and 33</u> is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers		·				
9)☐ The specification is objected to by the Examine	er.	·				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Burea	•					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:					

Part of Paper No./Mail Date 20071125

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DETAILED ACTION

Election/Restrictions

Applicant's arguments, see Response, filed 8/24/2007, with respect to the restriction requirement have been fully considered and are persuasive. The restriction requirement has been withdrawn.

Allowable Subject Matter

The indicated allowability of claims 27-33 is withdrawn in view of the newly discovered reference(s) to Barath and Vigil. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1, 2, 3, 5, 8, 10, 11, 12, 15, 17, 18, 19, 22, 23, 24, and 27-31 are rejected under 35 1. U.S.C. 102(b) as being anticipated by Barath et al (US 5,112,305).

Barath discloses in Figure 1 a catheter having a balloon (1), a plurality of rupturable microneedles (10; column 3, lines 16-40), an interior compartment (Figure 5) for containing active material, a catheter lumen used for both inflating the balloon and elivering the active material, and the length oh the microneedles being 0.25mm.

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2. Claims 1, 2, 4, 5, 15, 17, 18, 19, 27, and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Vigil et al (US 5,713,863).

Vigil et al disclose in Figure 6 a catheter (20), a balloon (30), a plurality of rupturable microneedles (40) diposed on a plate (Figures 5B and 6B), an interior compartment (38) for containing active material, and a first lumen (38) used to deliver an active material and a second lumen for inflating the balloon.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 9, 13, 14, 25, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barath OR Vigil et al in view of Yuzhakov et al (US 6,565,532).

Barath OR Vigil et al disclose the claimed invention except for there being between 10 and 1,000,000 microneedles per cm2 on the outer surface of the balloon, with the diameter of the microneedles being between 10nm and lmm. Yuzhakov et al teach in column 6, lines 41-58 that it is known to use microneedles with a diameter between 10nm and lmm in a density of 10 and 1,000,000 microneedles per cm2. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Barath OR Vigil et al with microneedles having a diameter and density as taught by Yuzhakov, since such a modification would provide the system with more effective microneedle penetration.

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Allowable Subject Matter

Claims 32 and 33 are objected to as being dependent upon a rejected base claim, but would be

allowable if rewritten in independent form including all of the limitations of the base claim and any

intervening claims.

Response to Arguments

Applicant's arguments with respect to the claims have been considered but are moot in view of

the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Catherine N. Witczak whose telephone number is (571) 272-7179. The examiner can

normally be reached on Monday through Friday, 8-5 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin

Sirmons can be reached on (571) 272-4965. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained

from either Private PAIR or Public PAIR. Status information for unpublished applications is available

through Private PAIR only. For more information about the PAIR system, see http://pair-

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Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer

Service Representative or access to the automated information system, call 800-786-9199 (IN UŞA OR

CANADA) or 571-272-1000.

Sur II) www.

KEVIN C. SIRMONS SUPERVISORY PATENT EXAMINER

Keir C. Sermons